

SD310-HF1P4SNM 1 dipole, 2.5 dBd, offset, HD, 370-460 MHz

- Covers 370-460 MHz
- 2.5 dBd gain with offset pattern
- Heavy duty, with 75W power handling
- Recommend using an SMK-125-A3 side mounting kit

**Recommend SMK-125-A3 for Offset Side Mount. Available from Sinclair separately.**

The SD310-H series of antennas are highly efficient and have exceptionally wide bandwidths, covering the frequency ranges of 370-460 and 406-512 MHz with a VSWR of 1.5:1 or better. Because of its bandwidth, the SD310-H series are well suited for multicoupled systems.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

### Electrical Specifications

Frequency Range	MHz	370 to 460	
Connector		N-Male	*1
Gain (nominal)	dBd (dBi)	2.5 (4.6)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Offset	
Horizontal beamwidth (typ)	degrees	210	
Vertical beamwidth (typ)	degrees	65	
Average Power Input (max)	W	75	
Lightning protection		DC ground	
Electrical tilt (available)		Not Available	

### Notes

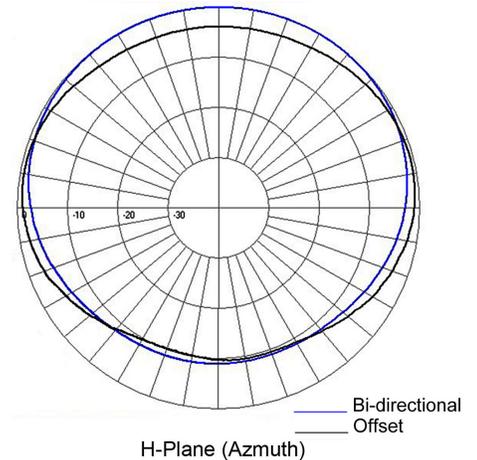
- \*1 : Optional N-Female
- \*2 : Offset
- \*3 : Values based on 100mph and 0 inches of ice.
- \*4 : Values based on 100mph and 0 inches of ice.
- \*5 : Values based on 100mph and 0 inches of ice.
- \*6 : Values based on 100mph and 0 inches of ice.

### Mechanical Specifications

Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	68 (1727)
Width	in (mm)	12.5 (318)
Base pipe diameter	in (mm)	1.9 (48)
Base pipe mounting length	in (mm)	24 (610)
Radiating element material		aluminum
Base pipe material		aluminum
Weight	lbs (kg)	8.3 (3.77)
Weight iced	lbs (kg)	11.5 (5.22)
Mounting Hardware (Optional)		Clamp005, Clamp015, Clamp130, or Clamp125U
Actual Shipping weight	lbs (kg)	22 (9.99)
Shipping dimensions	in (mm)	82x4x19 (2083x102x483)
Mounting configurations		Universal Mount
Recommended For Offset Side Mount:		SMK-125-A3

### Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.75 (0.07)
Wind Loading Area (1/2" ice)	ft² (m²)	1.22 (0.11)
Rated wind velocity (no ice)	mph (km/h)	265 (427)
Rated wind velocity (1/2" radial ice)	mph (km/h)	205 (330)
Lateral thrust (100 mph No Ice)	lbs (N)	27 (120.1)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	3.6 (4.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	47 (63.5)
Tip deflection (100 mph No Ice)	degrees	0.08



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